



CONTRACTOR:	
PROJECT:	DATE:
PREPARED BY:	MODEL#: TAMHLX(M)

DESCRIPTION



TAMHLX Series

The TAMHLX high bays are ideal for manufacturing, warehousing, commercial and industrial facility lighting applications.



FEATURES AND SPECIFICATIONS

Intended Use

Applications include large indoor spaces for manufacturing, warehousing, commercial and industrial facility lighting applications with mounting heights ranging from 10' - 40'.

Construction

Aluminum alloy housing provides high performance and unprecedented quality. Individual heat sinks offers heat transmission faster than die cast steel. Matte lens, standard.

Electrical

Thermally protected driver standard. 70% lumen maintenance at >50,000 hours. Long-life LEDs, coupled with high-efficiency drivers, provide extended service life. The TAMHLX delivers up to 135lm/W.

Dimming

LED drivers deliver dimming from a 0-10V control signal. Requires separate 0-10V DC dimming circuit. *

Installation

The TAMHLX high bay is provided with a 10' suspension cable kit. Surface and Pendant Mounting is also available.

Listings

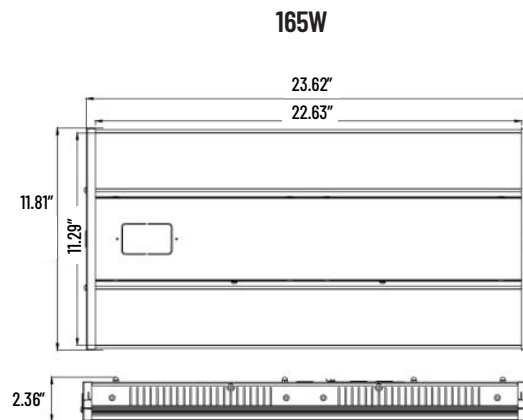
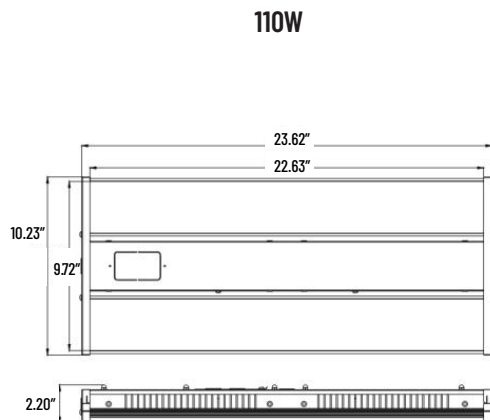
UL listed to US and Canadian safety standards. For use in ambient operating temperatures ranging from -4°F to 104°F. Design Lights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Warranty

5-year limited warranty.

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

LINE DRAWING



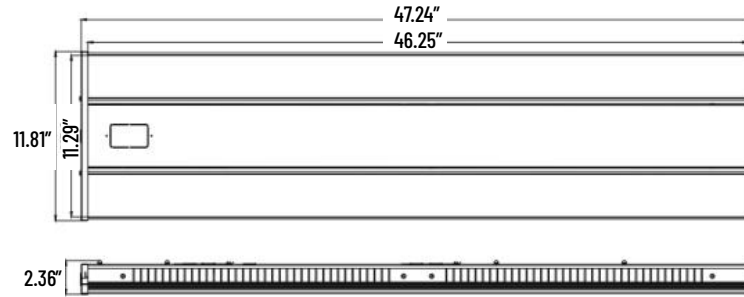
APPLICATION AND PERFORMANCE SPECIFICATION IS SUBJECT TO CHANGE WITHOUT NOTIFICATION



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LINE DRAWING

220W & 300W



ORDERING INFORMATION

Example: TAMHLX165W850M

SERIES & WATTAGE	CRI & COLOR TEMP	LENS	INSTALLED OPTIONS
[TAMHLX110W]: 2ft, 110W	[850]: CRI+/-85, 5000K	[M]: Matte Lens	[Blank]: No Options [-OS]: Microwave Sensor*
[TAMHLX165W]: 2ft, 165W			
[TAMHLX220W]: 4ft, 220W			
[TAMHLX300W]: 4ft, 300W			

*These units can not be connected to a dimming device when it's equipped with Motion Sensor.

LIGHTING & ELECTRICAL SPECIFICATIONS

SERIES	LUMENS @ 5000K	LPW	POWER CONSUMPTION (WATTS)	VOLTAGE	CRI	L70 (HOURS)
TAMHLX110W850M	14,485	135	106.97	120-277v	>80	50,000
TAMHLX165W850M	21,264	132	160.27			
TAMHLX220W850M	28,220	134	210.35			
TAMHLX300W850M	40,261	139	288.31			

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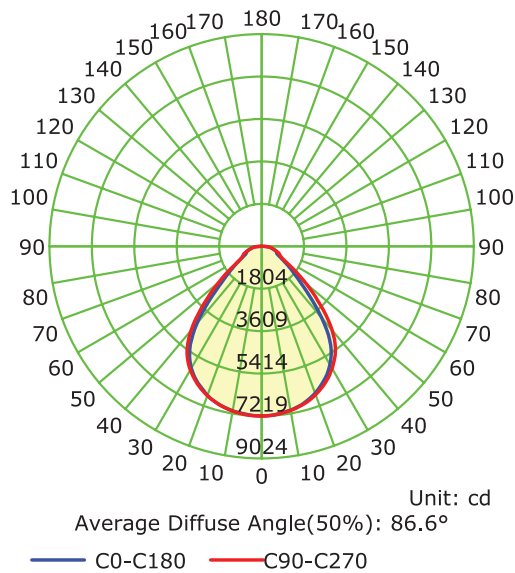


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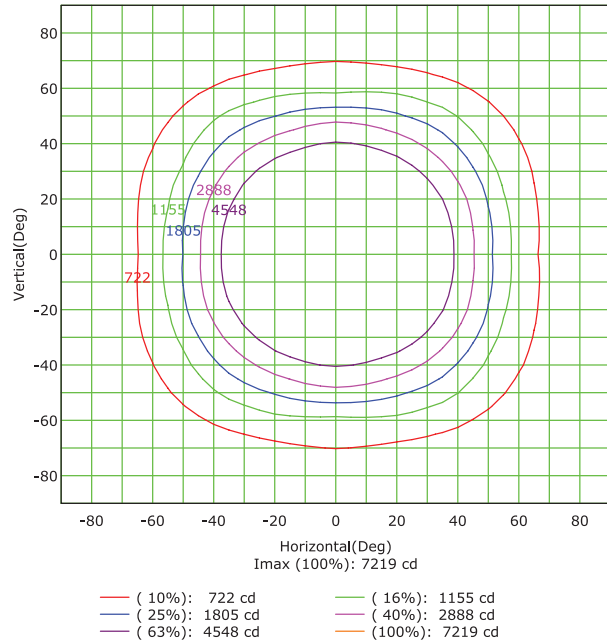
PHOTOMETRIC REPORTS

110W

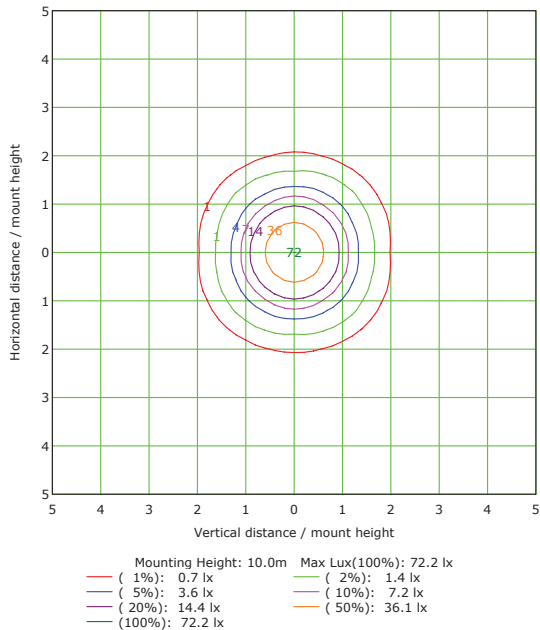
Luminous Intensity Distribution Curve



Isocandela (rectangle)



IsoLux Plot



Illuminance at a Distance

Dist(m)	Enadir(lx)	Dh/Dv_B(m)S	B(sq.m)	Eav_B(lx)
1.07	218.00	1.80/1.98	2.8	1943.81
2.01	804.50	3.60/3.95	11.3	485.95
3.0	802.00	5.39/5.93	25.3	215.98
4.0	451.13	7.19/7.91	45.0	121.49
5.0	288.72	8.99/9.89	70.47	7.75
6.0	200.50	10.79/11.86	101.35	3.99
7.0	147.31	12.58/13.84	137.93	9.67
8.0	112.78	14.38/15.82	180.13	0.37
9.08	9.11	16.18/17.792	28.0	24.00
10.07	2.18	17.98/19.77	281.5	19.44

Dh/Dv Beam Angle(B): H83.9 V89.3 Field Angle(F): H130.2 V140.0

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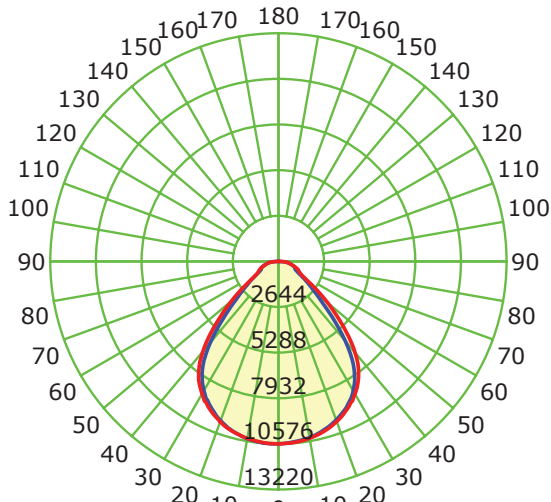


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PHOTOMETRIC REPORTS

165W

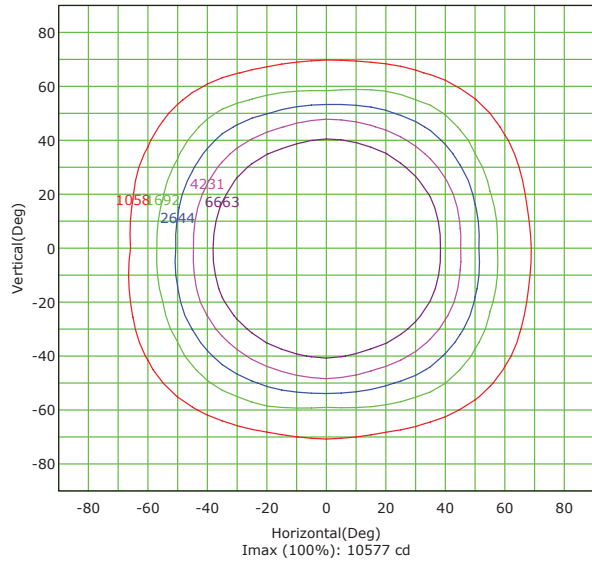
Luminous Intensity Distribution Curve



Unit: cd
Average Diffuse Angle(50%): 86.9°

— C0-C180 — C90-C270

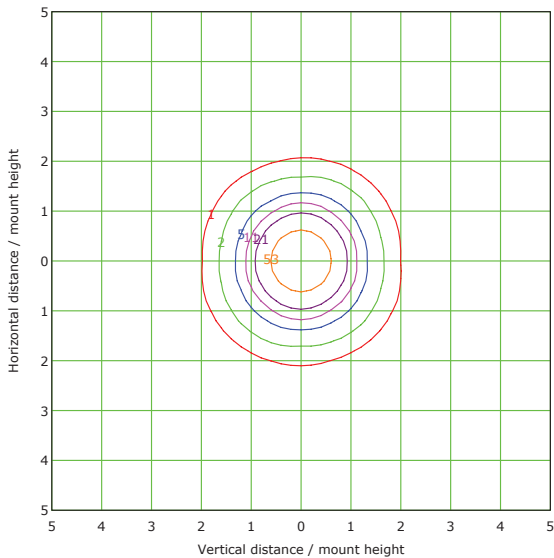
Isocandela (rectangle)



Imax (100%): 10577 cd

- (10%): 1058 cd
- (25%): 2644 cd
- (40%): 4231 cd
- (63%): 6663 cd
- (16%): 1692 cd
- (100%): 10577 cd

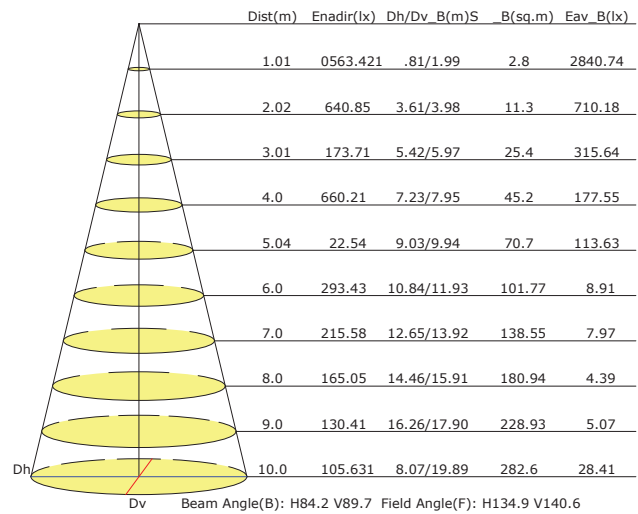
IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 105.7 lx

- (1%): 1.1 lx
- (2%): 2.1 lx
- (5%): 5.3 lx
- (10%): 10.6 lx
- (20%): 21.1 lx
- (50%): 52.9 lx
- (100%): 105.7 lx

Illuminance at a Distance



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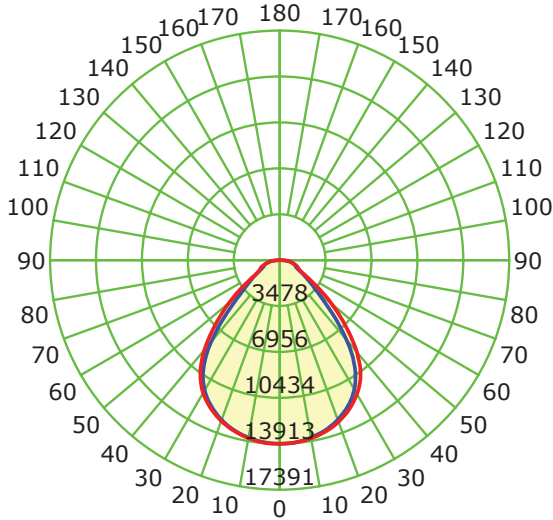


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PHOTOMETRIC REPORTS

220W

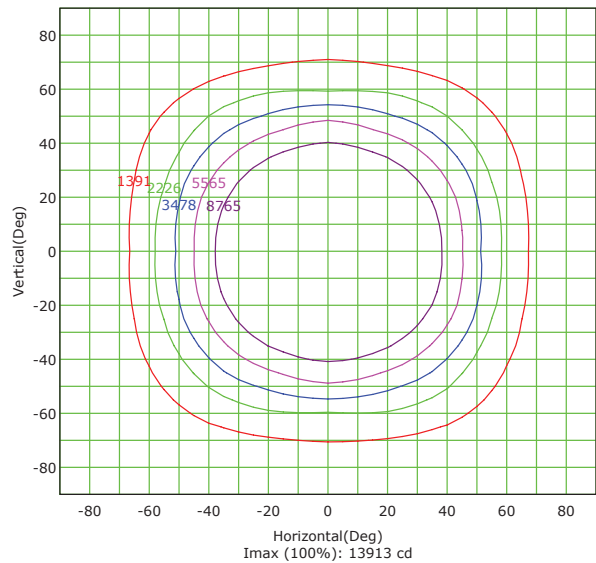
Luminous Intensity Distribution Curve



Unit: cd
Average Diffuse Angle(50%): 87.2°

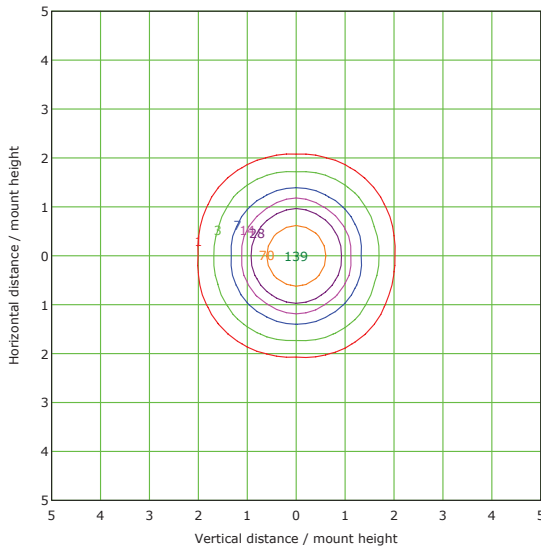
— C0-C180 — C90-C270

Isocandela (rectangle)



(10%): 1391 cd (16%): 2226 cd
(25%): 3478 cd (40%): 5565 cd
(63%): 8765 cd (100%): 13913 cd

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 139.1 lx
(1%): 1.4 lx (2%): 2.8 lx
(5%): 7.0 lx (10%): 13.9 lx
(20%): 27.8 lx (50%): 69.6 lx
(100%): 139.1 lx

Illuminance at a Distance

Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	13910.70	1.81/2.01	2.8	3725.70
2.03	477.68	3.62/4.01	11.4	931.42
3.01	545.635	.42/6.022	5.6	413.97
4.0	869.42	7.23/8.03	45.6	232.86
5.0	556.43	9.04/10.03	71.21	49.03
6.0	386.41	10.85/12.04	102.6	103.49
7.0	283.89	12.66/14.04	139.6	76.03
8.0	217.35	14.46/16.05	182.45	8.21
9.0	171.74	16.27/18.06	230.8	46.00
10.0	139.11	18.08/20.06	284.9	37.26

Dh Dv Beam Angle(B): H84.2 V90.2 Field Angle(F): H132.8 V142.0

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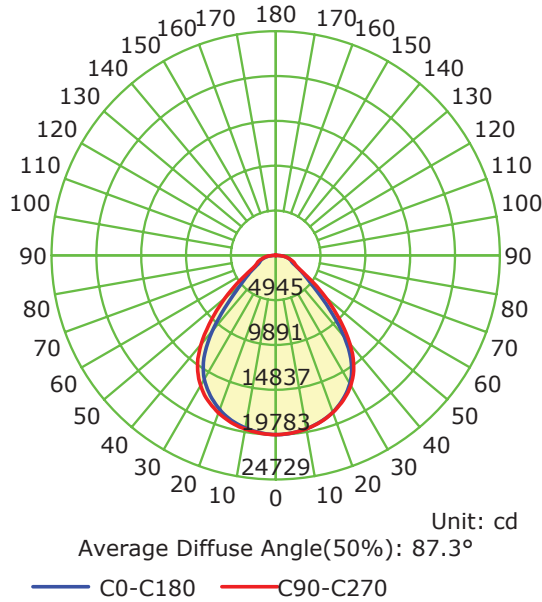


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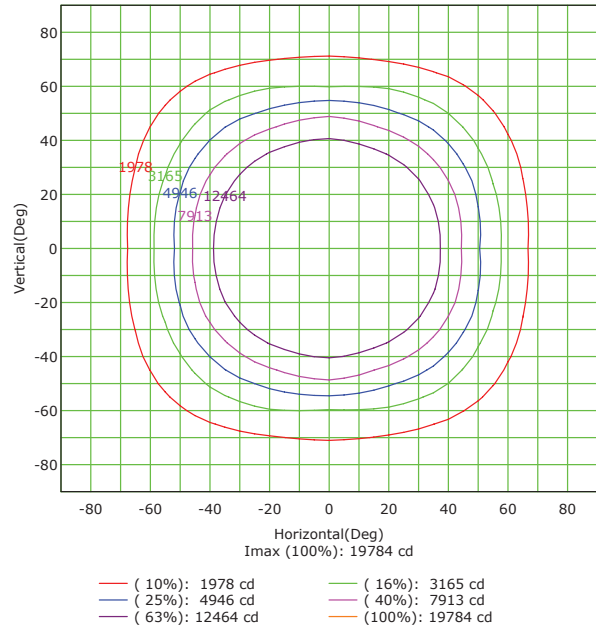
PHOTOMETRIC REPORTS

300W

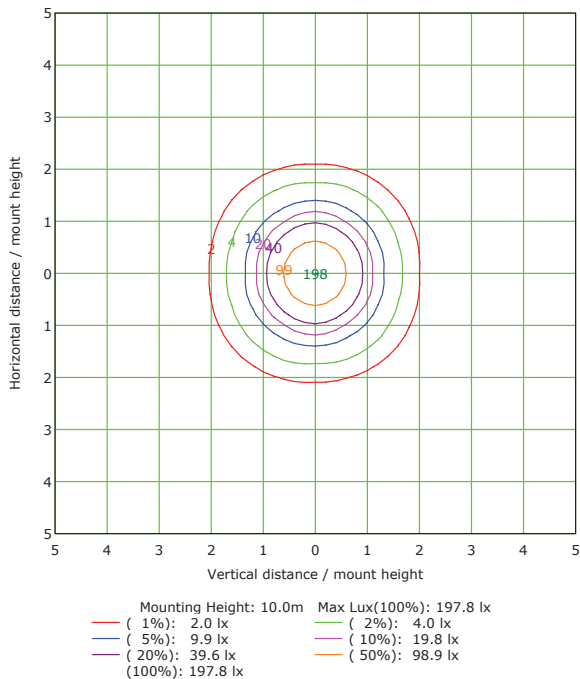
Luminous Intensity Distribution Curve



Isocandela (rectangle)



IsoLux Plot



Illuminance at a Distance

Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	19775.60	1.81/2.01	2.9	5286.63
2.04	943.90	3.62/4.02	11.4	1321.66
3.02	197.29	5.43/6.04	25.7	587.40
4.0	1235.97	7.23/8.054	5.7	330.41
5.0	791.02	9.04/10.06	71.52	11.47
6.05	49.32	10.85/12.07	102.91	46.85
7.04	03.58	12.66/14.081	40.1	107.89
8.0	308.99	14.47/16.10	182.9	82.60
9.02	44.14	16.28/18.11	231.5	65.27
10.0	197.76	18.09/20.12	285.8	52.87

Dh Dv Beam Angle(B): H84.2 V90.3 Field Angle(F): H133.5 V142.6

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ACCESSORIES



**Suspension Cables:
10' Suspension Kit
TAMGRIP-10FT-KIT (0553-3296)**

Single point suspension that allows two point to be suspended using one fastener. Two legs improve center of gravity and increases stability. Ideal for services that require maintenance. **INCLUDED**



**Sensor:
Occupancy Sensor
SNSR-MC601V (0635-8968)**

Microwave motion sensor detects movement and offers a wide range of options. **OPTIONAL**

Factory Settings:
Detection area: 50%
Hold time: 20min
Stand-by Period: 0s (Disabled)
Stand-by dim level: 10%
Daylight Sensor: Disable

For specific settings, see below-
Please contact factory for more details.



**V Hangers:
HB-4L-VHANGER (0392-3559)**

V hangers offer stability when used with a loop cable system. **SOLD SEPARATELY**



**Surface Mount Kit:
TAMHLXSMK-KIT (0546-8418)**

Surface mount brackets allow fixture to be mounted directly to ceiling or wall. **SOLD SEPARATELY.**



**Surface Mount Kit:
TAMHLXSMK-110 (0554-6754)
SURFACE MNT KIT 110W 2FT**

Surface mount brackets allow fixture to be mounted directly to ceiling or wall. **SOLD SEPARATELY.**



**Surface Mount Kit:
TAMHLXSMK-165-220-300 (0546-8418)
MF-SURFACE MNT KIT 165W-220W-300W
2FT4FT**

Surface mount brackets allow fixture to be mounted directly to ceiling or wall. **SOLD SEPARATELY.**



**Surface Mount Kit:
TAMHLXSMK-165-220-300-45DEG (0585-9801)
MF-SURFACE MNT KIT 165W-220W-300W 45DEG**

Surface mount brackets allow fixture to be mounted directly to ceiling or wall. **SOLD SEPARATELY.**



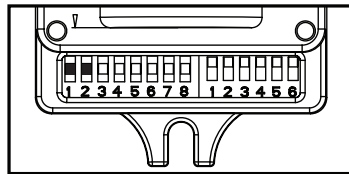
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MICROWAVE SENSORS

Each combination of DIP Switches can be toggled based on the charts below to achieve desired settings.

Microwave sensors operate on the principle of the Doppler effect, where the wavelength of microwave radiation changes due to relative motion of the wave source and detected. The faster the motion, the greater the frequency. The frequency difference between transmitting and receiving, caused by the Doppler effect, is known as the Doppler shift. The microwave motion sensor controls the lamp's ON-OFF or dimming by interpreting these Doppler shifts. For new installation environments, it is recommended to initially install and test 5 prototype units before proceeding with bulk installation.

ON ↑		1	2	
	I	ON	ON	100%
	II	ON	-	75%
	III	-	ON	50%
	IV	-	-	10%

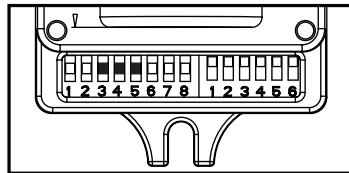


Detection Area (Sensitivity)

Factory Default: 50%

Detection Area, or Sensitivity is influenced by the speed and size of a moving object relative to the mounting height and angle of the sensor. Reflective materials can cause inaccurate readings resulting in the sensor falsely detecting. Because of this it is recommended that 5 units be installed in a space before the bulk of the installation, and the sensitivity be lowered as needed.

ON ↑		3	4	5	
	I	ON	ON	ON	5s
	II	-	ON	ON	30s
	III	ON	-	ON	90s
	IV	-	-	ON	3min
	V	ON	ON	-	20min
	VI	-	-	-	+∞

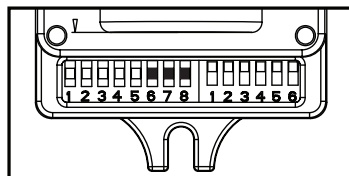


Hold Time

Factory Default: 20 Minutes

Hold Time refers to how long the fixture will remain 100% illumination after the sensor stops detecting motion. Selecting +∞ will keep the fixture at 100% illumination.

ON ↑		6	7	8	
	I	ON	ON	ON	0s
	II	-	ON	ON	5s
	III	ON	-	ON	5min
	IV	-	-	ON	10min
	V	ON	ON	-	30min
	VI	-	ON	-	1h
	VII	-	-	-	+∞

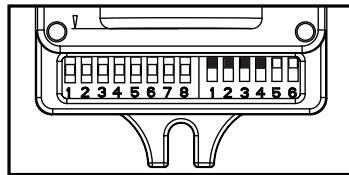


Stand-by Period

Factory Default: 0s (Disabled)

The stand-by period refers to how long the fixture will maintain the stand-by dimming level in the absence of motion. This allows the fixture to provide a lower illumination after the initial hold time expires. Selecting 0s will disable this feature while selecting +∞ will keep the fixture illuminated at the stand-by dimming level until motion is detected or power is cut to the fixture.

ON ↑		1	2	3	4	
	I	-	-	ON	ON	2Lux
	II	-	-	-	ON	5Lux
	III	-	ON	ON	-	10Lux
	IV	-	-	ON	-	25Lux
	V	-	ON	-	-	50Lux
	VI	ON	-	-	-	100Lux
	VII	-	-	-	-	Disable



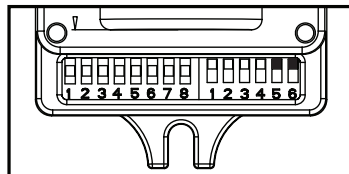
Daylight Sensor

Factory Default: Disabled

The daylight sensor refers to this sensor's ability to detect ambient lighting levels and shut the fixture off based on a predetermined light level. This is commonly referred to as Daylight Harvesting. This feature can be set based on various Lux settings ranging from 2-100 Lux as seen in the chart to the left. Selecting 'Disable' will disable all Daylight sensing features.

If you know that you need this feature enabled, please reach out to the factory about adjusting it for your bulk order.

ON ↑		5	6	
	I	ON	ON	50%
	II	-	ON	30%
	III	ON	-	20%
	IV	-	-	10%



Stand-by dimming level

Factory Default: 10% (Disabled via Stand-by Period)

The Stand-by dimming level refers to the percentage of illumination desired in the absence of motion. The Stand-by dimming level is triggered once the hold time is completed and by default is disabled in the factory.